

Please type a plus (+) inside this box

+

PTO/SB/05 (03-01)

Approved for use through 10/31/2002. OMB 0651-0032

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**UTILITY  
PATENT APPLICATION  
TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.

11499-003-999

Total Pages

112

First Named Inventor or Application Identifier

Gyuyoung HAN

Express Mail Label No.

EV 335 857 931 US

**APPLICATION ELEMENTS**

See MPEP chapters 600 concerning utility patent application contents.

Address to:

Commissioner for Patents

P.O. Box 1450

Mail Stop PATENT APPLICATION

Alexandria, VA 22313-1450

1. ☒ Fee Transmittal Form  
(Submit an original, and a duplicate for fee processing)
2. ☐ Applicant claims Small Entity status, see 37 C.F.R. § 1.27
3. ☒ Specification [Total Pages 37]  
(preferred arrangement set forth below, MPEP 1503.01)  
- Descriptive title of the Invention  
- Cross Reference to Related Applications  
- Statement Regarding Fed sponsored R&D  
- Reference to Microfiche Appendix  
- Background of the Invention  
- Brief Summary of the Invention  
- Brief Description of the Drawings (if filed)  
- Detailed Description of the Invention (including drawings, if filed)  
- Claim(s)  
- Abstract of the Disclosure
4. ☒ Drawing(s) (35 USC 113) [Total Sheets 3]
5. ☒ Oath or Declaration [Total Sheets 2]  
a. ☒ Newly executed (original or copy)  
b. ☐ Copy from a prior application (37 CFR 1.63(d))  
(for continuation/divisional with Box 18 completed)  
i. ☐ DELETION OF INVENTOR(S)  
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
6. ☐ Application Data Sheet. See 37 CFR 1.76

7. ☐ CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8. ☐ Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)  
a. ☐ Computer Readable Form (CRF)  
b. ☐ Specification Sequence Listing on:  
i. ☐ CD-ROM or CD-R (2 copies); or  
ii. ☐ paper  
c. ☐ Statement verifying identity of above copies

315325 U.S. PTO  
10/725630

120163

**ACCOMPANYING APPLICATION PARTS**

9. ☒ Assignment Papers (cover sheet & document(s)) are submitted concurrently under a separate cover letter.
10. ☐ 37 CFR 3.73(b) Statement (when there is an assignee) ☒ Power of Attorney
11. ☐ English Translation Document (if applicable)
12. ☐ Information Disclosure Statement (IDS)/PTO-1449 ☐ Copies of IDS Citations
13. ☐ Preliminary Amendment
14. ☒ Return Receipt Postcard (MPEP 503) (Should be specifically itemized)
15. ☒ Certified Copy of Priority Document(s) (if foreign priority is claimed)
16. ☐ Nonpublication Request under 35 U.S.C. 122 (b)(2)(i). Applicant must attach form PTO/SB/35 or its equivalent
17. ☒ Other: Multiple Dependent Claim Fee Calculation Sheet

18. If a CONTINUING APPLICATION, check appropriate box and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) | of prior application No.: filed

Prior application information:

Examiner:

Group Art Unit:

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

**19. CORRESPONDENCE ADDRESS**☒ Customer Number

20583

Insert Customer No.

or ☐ Correspondence address below

NAME

ADDRESS

CITY

STATE

ZIP CODE

COUNTRY

TELEPHONE

FAX

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

NY2: 1484048.1

**PENNIE & EDMONDS LLP**  
 COUNSELORS AT LAW  
 1155 Avenue of the Americas  
 New York, New York 10036-2711

ATTORNEY DOCKET NO. 11499-0003-999

Date: December 1, 2003

Commissioner for Patents  
 P.O. Box 1450  
 Mail Stop PATENT APPLICATION  
 Alexandria, VA 22313-1450

Sir:

The following utility patent application is enclosed for filing:

Applicant(s): Gyuyoung HAN Executed on: October 14, 2003  
 Title of Invention: METHOD AND SYSTEM FOR OPTIMIZING LOCATION-BASED SERVICES  
 BY ADJUSTING MAXIMUM ANTENNA RANGE

**PATENT APPLICATION FEE VALUE**

TYPE	NO. FILED	LESS	EXTRA	EXTRA RATE	FEE
Total Claims	38	- 20	18	\$18.00 each	\$ 324
Independent	3	- 3	0	\$86.00 each	\$ 0
Minimum Fee					\$ 770
Multiple Dependency Fee If Applicable (\$290.00)					\$ 290
<b>Total</b>					\$ 1384
Applicant qualifies for the 50% Reduction for Independent Inventor, Nonprofit Organization or Small Business Concern					\$ 0
<b>Total Filing Fee</b>					\$ 1384

[ ] **DO NOT PUBLISH.** I hereby certify that the invention disclosed in the attached application has not and will not be the subject of an application filed in another country, or under a multilateral agreement, that requires publication at eighteen months after filing. I hereby request that the attached application not be published under 35 U.S.C. 122(b).

[x] Priority of Korean Patent Application Nos. 2003-105000 and 2003-53225 filed on February 19, 2003 and July 31, 2003, respectively, is claimed under 35 U.S.C. § 119.

[x] The certified copies of the priority applications are filed concurrently.

Please charge the required fee to Pennie & Edmonds LLP Deposit Account 16-1150. A copy of this sheet is enclosed.

Respectfully submitted,

By Mikhail Fainberg Reg. No. 50,441  
 For Scott D. Stimpson Reg. No. 33,607  
 PENNIE & EDMONDS LLP

Enclosure

This form is not for use with continuation, divisional, re-issue, design or plant patent applications.